



Condensed Matter Physics

Michael P. Marder

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This updated edition offers a thorough treatment of such basic topics as band theory, transport theory, and semiconductor physics, as well as more modern areas such as quasicrystals, dynamics of phase separation, granular materials, quantum dots, Berry phases, the quantum Hall effect, and Luttinger liquids. In addition to careful study of electron dynamics, electronics, and superconductivity, there is much material drawn from soft matter physics, including liquid crystals, polymers, and fluid dynamics.

- Provides frequent comparison of theory and experiment, both when they agree and when problems are still unsolved
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- Provides end-of-chapter problems including computational exercises
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